

Lima Locomotive Works Incorporated

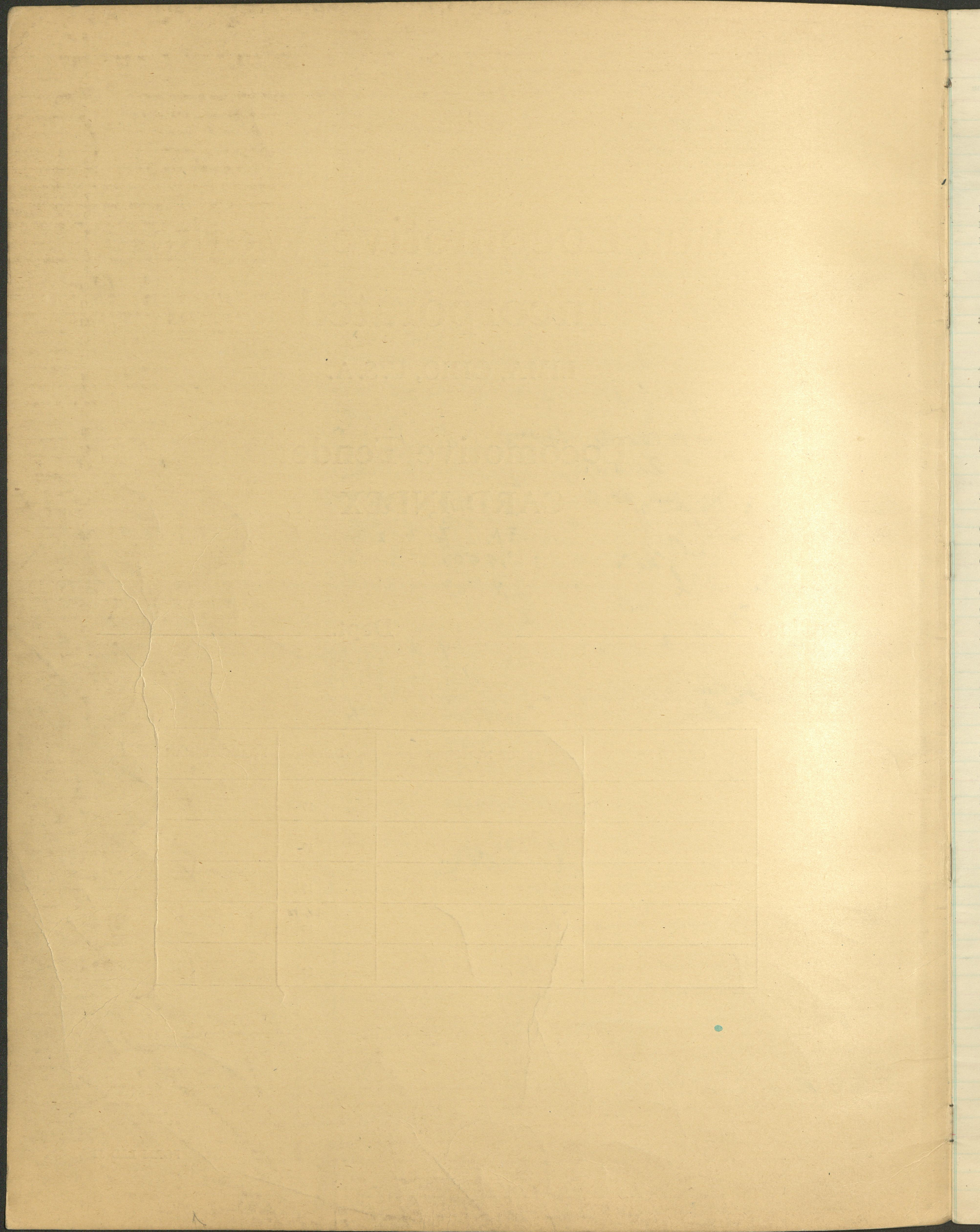
LIMA, OHIO, U. S. A.

Locomotive Tender *Southern Railway.* CARD INDEX

Class 8 WHEEL 8000 GAL

Dept. Drawing Room.

	ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
<i>Sou. Ry.</i>	CO. 1089	7077-7088	~~4-20~~ -1926	
<i>C.N.D. & T.P.</i>	"	7089-7094	4-20-1926	
<i>A.G.S.</i>	"	7095-7098	4-20-1926	
			19	
			19	



1089

500 FT. $2\frac{1}{2}" \times 2\frac{1}{2}" \times \frac{3}{8}"$ ANGLE IRON

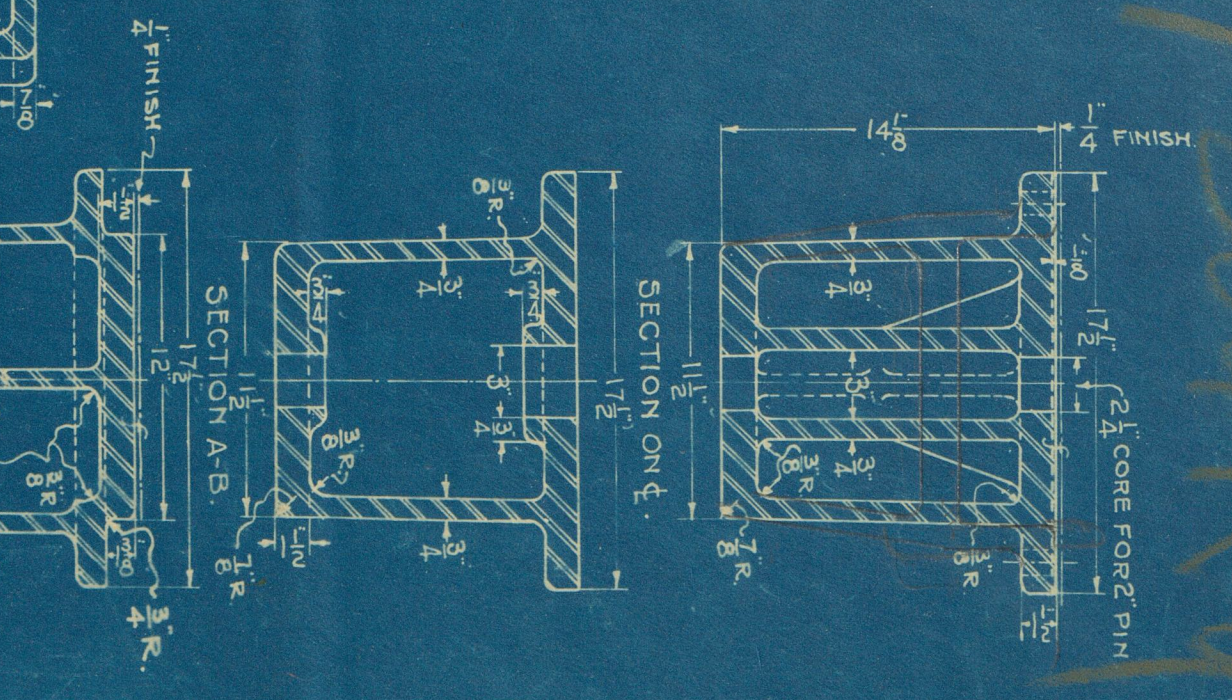
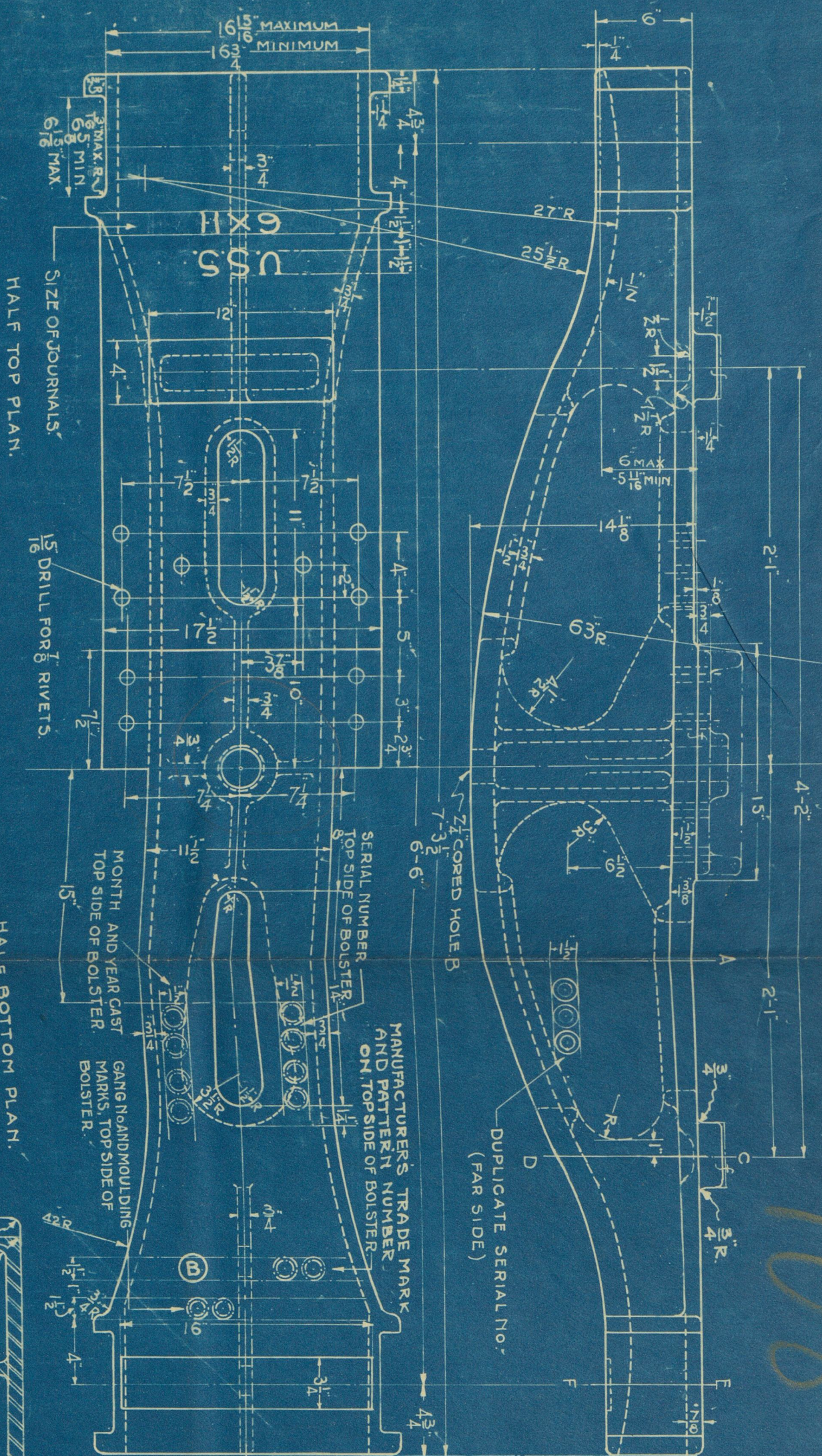
20	"	2" X 2" X 1/4"	"	"
----	---	----------------	---	---

100 " 1 1/2" HALF ROUND BEADING IRON

MATERIAL ORDER 88M0.76

C.O. 1089

1089 Southern



DRILLING AND FINISHING TO BE DONE BY LOCOMOTIVE BUILDER.

TABLE OF MARKING & FOREIGN DRGS.			
CUSTOMER	B.S.C.Co.	INITIALS	DRG. No.
U.S.R.A.	TB-79	U.S.	U.S.S. 645
SOUTHERN RY.	TB-79	U.S.	SL-3127

NOTE: THE FOLLOWING MARKING TO APPEAR IN 1 1/2 X 1/8 RAISED LETTERS ON BOLSTER

⑧

B.S.C.Co. TRADE MARK
B.S.C.Co. PATTERN NO.
R.R.Co. PATTERN NO.
R.R.Co. INITIALS
SIZE OF JOURNALS
MONTH & YEAR CAST

CAST STEEL TENDER TRUCK BOLSTER
140,000 LBS. CAPACITY
FOR U.S. STANDARD

THE BUCKEYE STEEL CASTINGS CO.
COLUMBUS, OHIO

DRAWN BY W.C.C.
TRACED BY W.C.C.
CHECKED BY H.M.
PATTERN NO. SEE TABLE.

DATE JUNE 2, 1918
SCALE 1" = 1'-0"

B-1976

P.S.F.C. - 20370-D

E.R. Allen

Memorandum of Interview between Mr. J.P. Chadwick, Mechanical Engineer, Southern Railway and Mr. J.E. Smith, Lima Locomotive Works, Inc., at Washington, D.C., March 19th and 20th, 1926.

- 1 - Card record No. L-56 for Class 25" x 23" 8-wheel Switchers, Nos. 1851-1860, furnished by Mr. Chadwick, together with a complete set of blue prints listed therein, which will be mailed to Lima, also corrected Specification E-100 which supersedes Specification E-91, dated February 19th, 1924, and it is desired that L.W., Inc., follow same in construction of engines on their C.O. - 1089.
- 2 - Mr. Chadwick advises that he would rather not raise gear frame 1/2" as has been done by L.L.W. for other roads. If necessary, he prefers a thin castle nut on guide bolt closest to gear frame.
- 3 - Steam pipes in cab 3/4" and under to be copper with double compression couplings or rolled mechanical joints.
- 4 - Air pump to be 3-1/2" C.C. - 120 as specified, which is Westinghouse standard, equipped with type "B" atomizing oil cups.
- 5 - Hand rail across rear of tank. Design shown on U.S.R.A. Sheet 368 will be satisfactory. (attached to end sill) *OK*
- 6 - All staybolts to be threaded 12 threads per 1" U.S. Form.
- 7 - All studs in boiler to be 12 threads per 1" taper 3/4" in 12" - V threads.
- 8 - Washout plugs 12 threads per 1", taper 1" in 12" - V threads.
- 9 - Arch tube plugs 12 threads per 1", taper 1" in 12" U.S. Form.
- 10 - Cab turret of brass will be satisfactory.
- 11 - Edna B-5 reflex water glass specified. Either B-5 or M-5 will be satisfactory.
- 12 - Hand brake not required for tender. *OK*
- 13 - Main rod back end wedge. Mr. Chadwick prefers them made of forged steel instead of cast steel.

- 14 - Bumper beam - Southern Railway pattern ES-1307. Mr. Chadwick advises this is in error, should call for Gould buffer coupler and beam.
- 15 - Okadee front end hinges desired.
- 16 - Omit hand sander rigging.
- 17 - Sand box to have top and sander casting welded as shown on print furnished. Bottom plate may be made as on U.S.R.A. Sheet #2595.
- 18 - Driving boxes required to have brass face cast on with ⁵/₈ iron liners on driving wheels.
- 19 - Cylinder to be as on SL-5055-2 except that oil pipe connection to cylinder barrel to be made by an iron pipe extending above horizontal wall. Bushing plugs 30 degrees off center towards outside.
- 20 - Prime storm windows are Railway Standard.
- 21 - Prime grease plugs SL-40870-1, ⁸/₂ required for side rods and eccentric rod. To be applied to side and main rods with bushing as on SL-3390 but without lock nuts.
- 22 - Engineer's seat 17-E-7 and fireman's seat 16-F-78, not latest standard. Require seat with lazy-back as on print furnished on both sides.
- 23 - Tank cock required as on SL-3915-1. — *See print*
- 24 - Foot warmer required as on A.L. Co's Card #642-S-4232, print furnished.
- 25 - Steel tool box for tank required, same capacity as on print furnished. *same Bushnell's standard box to be furnished*
- 26 - Gauge cock column arrangement on right side to print SL-41020, left side to print SL-41051.
- 27 - Driving box brass grooves - SL-41057.

12 - S. S. - #1839-1850
 6 - G. M. & P. - 6040-6045
 4 - A. G. S. - 6534-6537

March 20th, 1926.

Index to Classification of Drawings

- 11 Axles
- 15 Bolts and Nuts—Studs, Pins and Bushings
- 17 Boxes, Truck—and Details.
Chafing Plate—See 86.
Clearances—See 98.
Coal Pusher—See 88.
Coupler—See 86.
- 35 Die Work—Flanging Dies.
Drawgear, Tender—See 86.
Fire Extinguisher—See 64.
- 49 Gauges, Templates and Jigs.
- 53 Handrail and Steps—Handles.
- 54 Headlights and Signal Attachments, Lamps, Electric
Wiring, Builders' License and Number Plates.
Keys—See 15.
- 57 Lagging and Jacket.
Lamps—See 54.
Number Plates—See 54.
- 59 Oil and Grease Cups—Lubrication.
Oil Burning Attachments—See 82 and 88.
- 61 Painting, Lettering and Numbering—Photos.
- 62 Pilot and Snow Plows.
- 63 Pipe Fittings and Clamps—Air, Steam, Water and
Lubricator Pipe Fittings.
- 64 Piping Arrangements.
- 66 Plugs, Handholes and Washout.
- 71 Running Boards and Brackets.
- 73 Sand Box, Sanders and Rigging.
Signal Attachments—See 54.
Sprinkler—See 64.
- 76 Springs.
- 80 Stoker and Details.
Steam Heat—See 64.
Steps—See 53.
- 82 Tank Valves—Oil and Water, Handles, Well, Goose
Neck, Strainer, Hose and Cooler Cocks.
- 84 Tender Brake—Truck and Frame Brake.
- 85 Tender Frames—Front and Back Bumpers.
- 86 Tender Drawgear—Buffer, Chafing Plate, Coupler and
Rigging, Drawhead F. and B.
- 87 Tender Deck, Tool Box, Water Cooler.
- 88 Tender Tank—Water and Oil, Coal Gate, Coal Pusher,
Filling Hole and Tank Funnel.
- 89 Tender Truck, Bolster and Guides, Spring Seats and
Plank.
- 90 Tender Water Scoop—Arrangements and Details.
Tires—See 95.
Tool Boxes—See 87.
- 95 Wheels and Tires.
- 97 Preliminary Designs and Propositions.
- 98 Clearances and Wheel Base Diagrams.
- 99 Miscellaneous.

1089
X

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS, HANDHOLES AND WASHOUTS								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9	GROUP 71—RUN'G BOARDS & BRACK'TS								
	10	Running Board								
	11	" "								
	12	" " Bracket								
	13	" " "								
	14	" " "								
	15	" " "								
	16									
	17									
	18									
	19									
	20									
	21	GROUP 73—SAND BOX AND RIGGING								
	22	Sand Box	1							
	23	" " Brace	1							
	24	" " Handle	1							
	25									
	26									
	27									
	28									
	29	GROUP 76—SPRINGS								
8	30	Truck Spring <i>complete</i>	4	<i>To Soc. Ry Prints #11-E12 Line 16 & Print SL40223, Fur. By R.R.</i>						
	31	" "	1							
	32	" " Clip	1							
	33	" " End Block	1							
	34	Buffer Spring	1							
	35	Coupler Spring	1							
	36	Draw Spring	1							
	37	" "	1							
	38	Water Scoop Spring	1							
	39	" " "	1							
	40	Brake Beam Leveling Spring	1							
	41									
	42									
	43									
	44									
	45									
	46	GROUP 80—STOKER AND DETAILS								
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									
		(Group 80 Continued)								

1089
+

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 80—STOKER AND DETAILS (Cont.)								
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44	GROUP 82—TANK VALVES AND COCKS								
P	45	Tank Valve	2	824 A1	—	—	—	—	82-184	—
	46	" " Body	—	—	—	—	—	—	—	—
P	47	" " Seat	2	824 A1	—	—	—	82-179	—	EM-409
P	48	" " ~~Shaft~~ Ring	2	"	—	—	—	—	82-180	—
	49	" "	—	—	—	—	—	—	—	—
P	50	" " Rod	2	822 K 58	—	822 K 58	—	—	—	—
	51	" " Lift	—	—	—	—	—	—	—	—
P	52	" " Handle	2	824 A1	—	—	—	82-183	—	EM-406
P	53	" " Gland	2	"	—	—	—	—	82-176	—
P	54	" " Goose Neck	2	"	—	—	—	—	82-182	EM-408
P	55	" " Nut Handle Stop	4	"	Turned From 3" Bar Iron	—	—	—	—	—
	56	" " Sleeve	—	—	—	—	—	—	—	—
P	57	" " Hose Nut	2	824 A1	—	—	—	—	55-19	EM-407
	58	" " " Swivel	—	—	—	—	—	—	—	—
P	59	Tank Valve Flange	2	824 A1	—	—	82-178	—	—	—
P	60	" " "	2	"	—	—	82-181	—	—	—
P	61	" " Strainer	2	"	#18 BWG Sheet Copper cut Punched L&L 822 A6	—	—	—	—	—
		(Group 82 Continued)								

1089
X

Check	Item	TITLE	No. Pes.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VAL. AND COCKS (Cont.)								
	1	Tank Well	2	824 A1	3/8" Plate Ord	—	—	—	—	—
	2	" " Plug	4	"	—	—	—	—	Stick	—
	3	" Syphon Gaskets	1-Set	"	Math. Ord	—	—	—	—	—
	4	" " Pipe Support								
	5	" " Brace								
	6									
	7									
	8									
	9	Oil Tank Plug	—							
	10	" " Valve	—							
	11	" " " Seat	—							
	12	" " " Rod	—							
	13	" " " Arm	—							
	14	" " " Gland	—							
	15	" " "	—							
	16	" " " Nut	—							
	17	" " " Sleeve	—							
	18	" " " Drain	—							
	19	" " " " Seat	—							
	20	" " " Stuffing Box	—							
	21	" " " " " Nut	—							
	22	" " " " " Gland	—							
	23	" " " Rod End	—							
	24	" " Measuring Rod	—							
	25	Oil Tank Cock	—							
	26	" " " Cap	—							
	27	" " " Plug	—							
	28	" " " Nut	—							
	29	" " " Washer	—							
	30	" " " Handle	—							
	31	Tank Cock Body	1	0-47025-3 Live	—	—	—	—	82-338A	—
	32	" " Plug	1	"	—	—	—	—	82-337	—
	33	" " Nut	1	"	—	—	—	—	82-335	—
	34	" " Washer Gland	1	"	—	—	—	—	82-336	—
	35	" " Handle	1	"	—	—	—	—	82-340	EM-114
	36	" " Flange Stuffing Box	1	"	—	—	—	—	82-339	EM-234
	37	" " Rod	1	"	—	470S-491	—	—	—	—
	38	" " Stuffing Box Gaskets	1-Set	"	Rubber	—	—	—	—	—
	39	" " Nut Gland	1	"	—	—	—	—	82-341	—
	40	" " " " Nut								
	41	Box Cooler Valve	—							
	42	" " " Cap	—							
	43	" " " Stem	—							
	44	" " " Gland	—							
	45	" " " Nut	—							
	46	" " " Handle	—							
	47	" " " Coupling Nut	—							
	48	" " " Swivel	—							
	49									
	50	GROUP 84—TENDER BRAKE								
	51	Frame Body Brake Arrangement		843 A 23	—	—	—	—	—	—
	52	Body Brake Lever	2	"	—	84 A 8	—	—	—	—
	53	" " "	—							
	54	" " " Support	3	843 A 23	—	84 A 4	—	—	—	—
	55	" " " "	—							
	56	" " Connecting Rod	1	843 A 23	—	84 A 5	—	—	—	—
	57	" " " "	—							
	58	" " Equalizer	—							
	59	" " Fulerum	—							
	60	" " Rod Cyl	1	843 A 23	—	84 A 6	—	—	—	—
	61	" " Clevis	—							
		(Group 84 Continued)								

Check	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 84—TENDER BRAKE (Cont.)								
	1	Body Brake Sheave	—							
	2	" " " Support	—							
	3	" " " Shaft	—							
	4	" " " Cap	—							
	5	" " " Hanger	—							
	6	" " " Step	—							
	7	" " " Wheel	—							
	8	" " " Handle	—							
	9	" " " Pawl	—							
	10	" " " " Plate	—							
	11	" " " Ratchet	—							
	12	" " " Weight	—							
D	13	" " Cylinder	1	843 A 23	14"x12"	—	—	—	—	—
	14	" " " Head	—							
	15	" " " "	—							
	16	" " " Support	—							
D	17	" " Pins	1 Set	843 A 23	—	—	—	—	—	—
	18	" " "	—							
	19	" " "	—							
	20	" " "	—							
	21	Tender Brake Piston	—							
	22	" " " Follower	—							
	23	" " " Ring	—							
D	24	" " " Rod	1	842 K 36	—	842 K 36	—	—	—	—
	25	Brake Reservoir Hanger	—							
	26	" " Strap	—							
	27	Hand Brake Arrangement	—							
	28	" " Rod	—							
	29		—							
	30		—							
	31		—							
	32		—							
	33		—							
	34		—							
D	35	Truck Brake	2	894 J 1						
D	36	" " Beam	2							
D	37	" " Suspension Spring	4	843 F 3						
D	38	" " " Angle	2	"		84 A 101				
D	39	" " " Support	8	842 A 2		842 A 2				
	40	" " " Safety Chain	—							
	41	" " " " Bar	—							
	42	" " " Leveling Eyebolt	—							
	43	" " Head	—							
D	44	" " Shoe	8	See Ry Special A.B.S. Fdry Co	Ord					
D	45	" " " Key	8							
	46	" " "	—							
D	47	" " Lever	2	842 B 3	—	84 A 7				
	48	" " " Guide	—							
D	49	" " Dead Lever	2	842 B 3	—	84 A 7				
D	50	" " " " Anchor	2	842 A 58	—	842 A 58				
D	51	" " " " " Lug	1	842 A 1	—					
D	52	" " Lever Rod	2	842 B 3	Schaefer Equip Co	Ord				
	53	" " " "	—							
D	54	" " Pins	8	894 J 1	—	84 A 42				
D	55	" " " "	1 Set	842 B 3	—					
	56	" " " "	—							
D	57	Third Point Suspension Arrgt		843 F 3						
D	58	" " Sliding Chair	4	"						
D	59	" " Spring Washers	4	"						
	60		—							
	61		—							

X

Cresco 28000# 6530 C Ord
Ch. Ry Equip Co Print # 6579 I Ord84-7
84-884-7
84-8

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 85—TENDER FRAME								
P	1	Frame	1	858 A 27	Commonwealth Ord	—	—	—	—	—
	2	" Center Sill	—							
	3	" Side Sill	—							
	4	" End Sill	—							
	5	" Corner Angle	—							
	6	" " Bracket	—							
	7	" " Knee	—							
	8	" Brace	—							
	9	" "	—							
	10	" "	—							
	11	" Filling	—							
	12	" "	—							
	13	" "	—							
	14	" Bolster	—							
	15	" " Angle	—							
	16	" " Plate	—							
	17	" " Truss Bar	—							
	18	" " " Brace	—							
	19	" " " Plate	—							
	20	" "	—							
	21	" " Tie Plate	—							
P	22	" Center Plate	2	858 A 27	Commonwealth Ord	—	—	—	—	—
P	23	" Side Bearing	4	"	5"x12" Thickness to provide 1/2" clearance F&B	—	—	—	—	—
	24	" " "	—							
	25	Push Pole	—							
P	26	" " Collars	2	852 A 42	Pole ord in Pur Dept	852 A 42	—	—	—	—
	27	" " Pocket	—							
P	28	" " Support	2	852 A 6	—	—	85-43 85-44	—	—	—
	29	" " Stop	—							
P	30	Wrecking Frog Brackets	4	858 A 27	—	85 A 47	—	—	—	—
	31	Switch Rope Hooks	—							
	32	Check Chain	—							
	33	" " Pocket	—							
	34	" " Hook	—							
P	35	Tender Floor	1	858 A 27	13/4" x 12" Georgia Pine Ord	—	—	—	—	—
P	36	" " Edge	1	"	13/4" x 2" " "	—	—	—	—	—
	37	Bumper—Front	—							
	38	" —Back	—							
	39	Tender Floor Anchor	—							
	40		—							
	41		—							
	42		—							
	43		—							
	44		—							
	45		—							
	46		—							
P	47	GROUP 86—TENDER DRAWGEAR	1	863 A 68	Miner A-18-X-2 Ord	—	—	—	—	—
P	48	Coupler	1	"	Gould Coupler Co Print # F.C. 891 Ord	—	—	—	—	—
P	49	" Pocket Follower Block	1	"	Mallory TH-Symington Print G-410 Ord	—	—	—	—	—
P	50	" Followers	1	"	Soft Steel " " H-578B-Ord	—	—	—	—	—
P	51	" Yoke	1	"	" " " H-577A Ord	—	—	—	—	—
P	52	" " Filler Carrier	2	"	3"x2 1/2"x 1/2" Angle Cut to 3"x2 1/2"x 1/2"	—	—	—	—	—
	53	" Follower Guide	—							
P	54	" Carry Iron	1	863 A 68	—	1 1/2"x5"x29	—	—	—	—
	55	" Chain	—							
	56	" " Clevis	—							
P	57	Drawbar Pin	1	862 A 2	—	862 A 2	—	—	—	—
P	58	" " Support	1	372 A 10	—	372 A 10	—	—	—	—
	59	Safety Chain Pin	—							
P	60	Draft Gear Check Casting	2	863 A 68	T.H. Symington Print H-751-3	86 E 6	—	—	—	—
P	61	" " Key	2	"	TH Symington Print 324 A Ord	—	—	—	—	—
		(Group 86 Continued)								

Check	Item	TITLE	No. Pes.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 86—TENDER DRAWGEAR (Cont.)								
P	1	Draft Gear Carrier	1	863 A 68	—	86 B 41	—	—	—	—
P	2	~~Drawhead Base~~ Clamp	2	"	—	86 A 49	—	—	—	—
P	3	Uncoupling Shaft	1	863 A 68	—	86 A 102	—	—	—	—
P	4	" " ~~Lock Fitter~~	1	"	By Devices Co	Print # 12-1940 Otd	—	—	—	—
P	5	" " Bracket	3	372 A 213	—	—	37-385	—	—	—
	6	" " "	—							
	7	" " Handle	—							
	8	" " Cap	—							
	9									
	10	Draw Casting—Front	—							
	11	" " —Back	—							
	12	Safety Chain	—							
	13	" " Clevis	—							
	14	" " Staple	—							
	15	" " Washer	—							
	16									
	17	Chafing Casting								
	18	" Iron								
	19	Spring Buffer								
	20	" " Case								
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34	GROUP 87—TENDER DECK AND TOOL BOX								
P	35	Tender Deck	1	872 A 32	Wood & Plate Mat'l. Ord	—	—	—	—	—
P	36	" " Shovel Plate	1	889 A 37	4" Plate Ord	—	—	—	—	—
P	37	" " Support, Outside	5	872 A 32	4" Plate	—	—	—	—	—
P	38	" " " Inside	5	"	4" Plate	—	—	—	—	—
	39									
	40									
P	41	Tool Box	5	872 A 36	#10 Plate	—	—	—	—	—
P	42	" " Hinges	2	"	6" Ex Heavy "T" Ord	—	—	—	—	—
P	43	" " ~~Handle~~ Hasp	1	"	6" Ord	—	—	—	—	—
P	44	" " = Eye bolt	3	"	—	88 A 196 925-2/3	—	—	—	—
	45	" " Brace	—							
	46	" " "	—							
	47	"	—							
	48	" Closet Hinge	—							
	49	" " " Lug	—							
	50									
	51									
	52									
	53	Water Cooler	—							
	54	" " Base	—							
	55	" " Top	—							
	56	" " Lid	—							
	57	" " Casing	—							
	58	" " Cock	—							
	59									
	60									
	61									

Check	Item	TITLE	No. Pes.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK								
<i>P</i>	1	Tank—Water	1	889 A 37	80006all	Bend Angles & Tees	—	—	—	—
<i>P</i>	2	" Material Bill	—	—	—	—	—	—	—	—
	3	" Brace	—	—	—	—	—	—	—	—
	4	" Knee	—	—	—	—	—	—	—	—
	5	" Lifter Iron	—	—	—	—	—	—	—	—
<i>P</i>	6	" Drain Pipe	2	882 F 4	—	—	88-101	—	—	—
<i>P</i>	7	" " " Flange Gaskets	2	889 A 9	1" Rubber	—	—	—	—	—
<i>P</i>	8	" " " " "	2	889 A 10	1" Rubber	—	—	—	—	—
	9	" Fuel Rack	—	—	—	—	—	—	—	—
	10	" Tool Hook	—	—	—	—	—	—	—	—
<i>P</i>	11	" Lug	8	882 A 3	—	4705 07	—	—	—	—
	12	" "	—	—	—	—	—	—	—	—
<i>P</i>	13	" Funnel	1	882 A 6	1/4" Plate on	—	—	—	—	—
<i>P</i>	14	" " Lid	3	"	3/16" " on	—	—	—	—	—
<i>P</i>	15	" " Hinge	6	"	—	4705-447	—	—	—	—
<i>P</i>	16	" " " Lug	6	882 C 68	—	—	—	88-95	—	—
<i>P</i>	17	" " Handle	3	882 A 1	—	—	—	—	—	—
	18	" " Screen	—	—	—	—	—	—	—	EM-414
<i>P</i>	19	" Coal Gate	1	884 B 3	1/2"x10x54" Oak	—	—	—	—	—
<i>P</i>	20	Coal Gate Angle	1	"	2 1/2"x2 1/2"x3/8"	—	—	—	—	—
<i>P</i>	21	" " Catch Pocket	8	882 B 7	—	—	—	—	—	EM-416
<i>P</i>	22	" " Latch	2	"	—	—	—	—	—	EM-417
	23	" " Hinge	—	—	—	—	—	—	—	—
	24	" " " Lug	—	—	—	—	—	—	—	—
<i>P</i>	25	" " Chain	3	882 B 8	complete	882 B 8	—	—	—	—
	26	" " Eyebolt	—	—	—	—	—	—	—	—
	27	" " Slide Clamp	—	—	—	—	—	—	—	—
	28	" " Catch Bracket	—	—	—	—	—	—	—	—
	29	" " Handle	—	—	—	—	—	—	—	—
	30		—	—	—	—	—	—	—	—
	31	Tank Cut Out for Stoker	—	—	—	—	—	—	—	—
	32		—	—	—	—	—	—	—	—
	33		—	—	—	—	—	—	—	—
	34	Tank—Oil	—	—	—	—	—	—	—	—
	35	" Material Bill	—	—	—	—	—	—	—	—
	36	" Brace	—	—	—	—	—	—	—	—
	37	" Lifter Iron	—	—	—	—	—	—	—	—
	38	" Lug	—	—	—	—	—	—	—	—
	39	" "	—	—	—	—	—	—	—	—
	40	" Funnel	—	—	—	—	—	—	—	—
	41	" " Lid	—	—	—	—	—	—	—	—
	42	" " Hinge	—	—	—	—	—	—	—	—
	43	" " " Lug	—	—	—	—	—	—	—	—
	44	" " Screw	—	—	—	—	—	—	—	—
	45	" " Handle	—	—	—	—	—	—	—	—
	46	" " Gasket	—	—	—	—	—	—	—	—
	47	" " Screen	—	—	—	—	—	—	—	—
	48		—	—	—	—	—	—	—	—
	49		—	—	—	—	—	—	—	—
	50	Coal Pusher	—	—	—	—	—	—	—	—
	51		—	—	—	—	—	—	—	—
	52		—	—	—	—	—	—	—	—
	53		—	—	—	—	—	—	—	—
	54		—	—	—	—	—	—	—	—
	55		—	—	—	—	—	—	—	—
	56		—	—	—	—	—	—	—	—
	57		—	—	—	—	—	—	—	—
	58		—	—	—	—	—	—	—	—
	59		—	—	—	—	—	—	—	—
	60		—	—	—	—	—	—	—	—
	61		—	—	—	—	—	—	—	—

Check	Item	T I T L E	No. Pes.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 90—TENDER WATER SCOOP								
	1	Water Scoop	Z							
	2	Scoop Cylinder								
	3	" " Head								
	4	" " "								
	5	" " Gland	Z							
	6	" " Support								
	7	" " "								
	8	" Piston								
	9	" " Follower	Z							
	10	" " Rings								
	11	" " Rod								
	12	" " " Jaws								
	13	" " " Extension Links	Z							
	14	" Inside Pipe								
	15	" Outside Pipe								
	16	" Air Pipe Casing								
	17	" Neck	Z							
	18	" Splash Hood								
	19	" Dipper								
	20	" " Link								
	21	" " Lifter	Z							
	22	" " Nose								
	23	" " Shield								
	24	" " " Brackets								
	25	" Shaft	Z							
	26	" " Fulerum								
	27	" Bell Crank								
	28	" Arm								
	29	" Spring Cap	Z							
	30	" " Rod								
	31	" " Seat								
	32	" " " Support								
	33	" Jaws	Z							
	34	" Rods								
	35	" Lever								
	36	" Link								
	37	" Bracket	Z							
	38	" Brace								
	39	" Pipe Hanger								
	40	" Joint Piece								
	41	" " " Trunion Cap	Z							
	42	" " " " "								
	43	" " " Lifting Links								
	44	" " " " "								
	45	" Delivery Pipe Hanger	Z							
	46	" " " " Clamp								
	47	" " " " Clips								
	48	"								
	49	"	Z							
	50	" Operating Valve								
	51	" " " Cap								
	52	" " " Plug								
	53	" " " Nut	Z							
	54	" " " Handle								
	55	" " " Quadrant								
	56	" " " Spring								
	57		Z							
	58									
	59									
	60									
	61		Z							

Material Specifications

Handwritten text, possibly a title or date, at the top left corner.